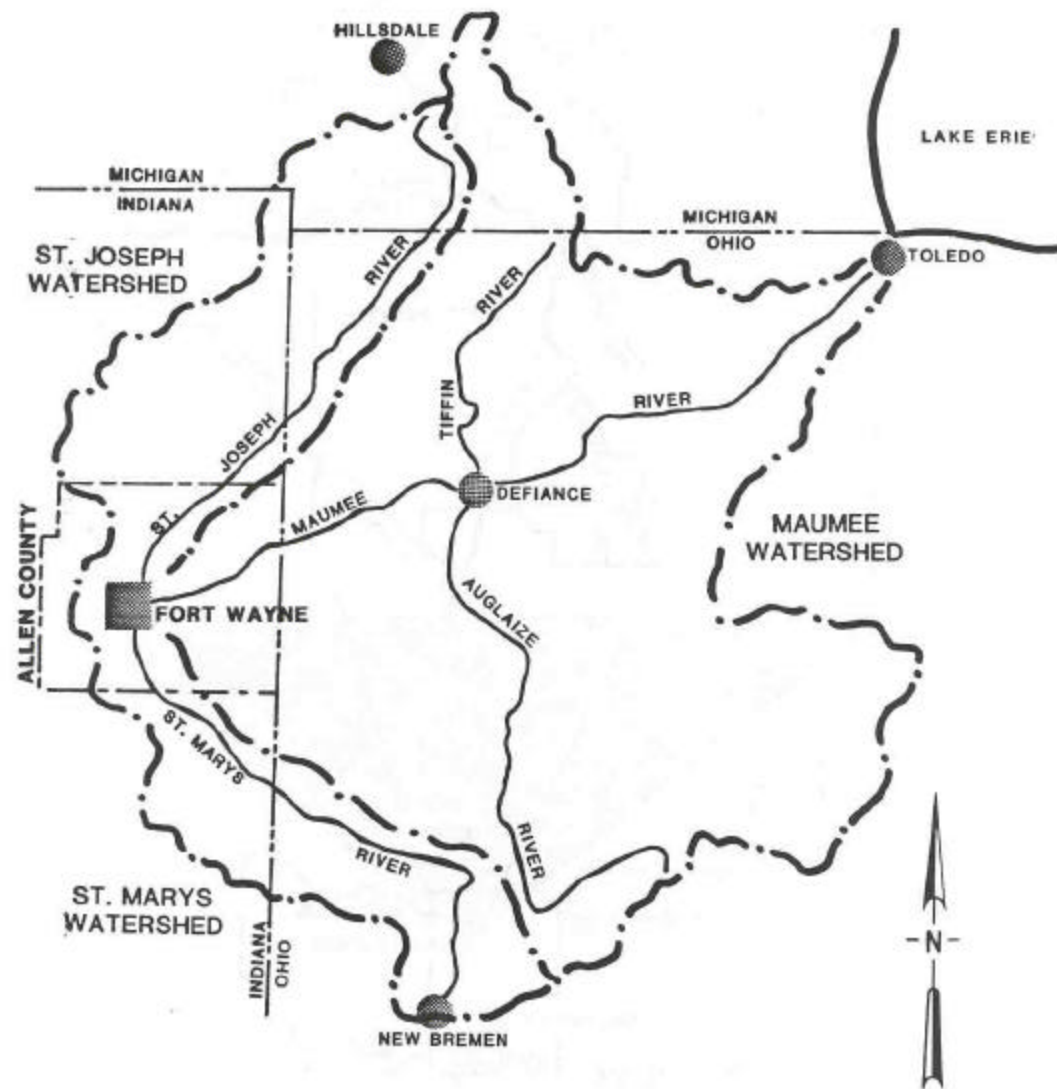


Fort Wayne, Indiana Flood Control Project



US Army Corps of Engineers Water Resources Conference— 17 May 2001



FORT WAYNE, INDIANA & VICINITY
FLOOD CONTROL STUDY
U.S. ARMY ENGINEER DISTRICT, DETROIT



US Army Corps

1913 *Historical Flood*



West Superior Street in 1913



1913 Flood

- *Worst Flood in the History of Fort Wayne*

- ⊗ Caused Largely by St. Marys River

- ⊗ Crested at 26.1'

- *Thousands Affected -- Came Without Warning*

- *Six Lives Lost*

- *100-year event St. Joseph River*

- *Greater than 100-year on St. Marys*



The Great Flood of 1982



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The Great Flood of 1982

- ***1982 Flood History***
 - \$56.1 Million Dollars Damage
 - \$10 Million in Cleanup Alone
- The “City That Saved Itself “ Readers Digest Story
- Teenagers Praised -- Respect from Entire Community
- ***President Ronald Reagan***



Other Floods Endured

⌚ *1943, 1950, 1959, 1978, 1982, 1985, 1989, 1991*

⌚ *Since 1907 Maumee River has reached flood stage in all but 8 years*

⌚ ***Official Flood Stages:***

⌚ ***Maumee River 15 Feet***

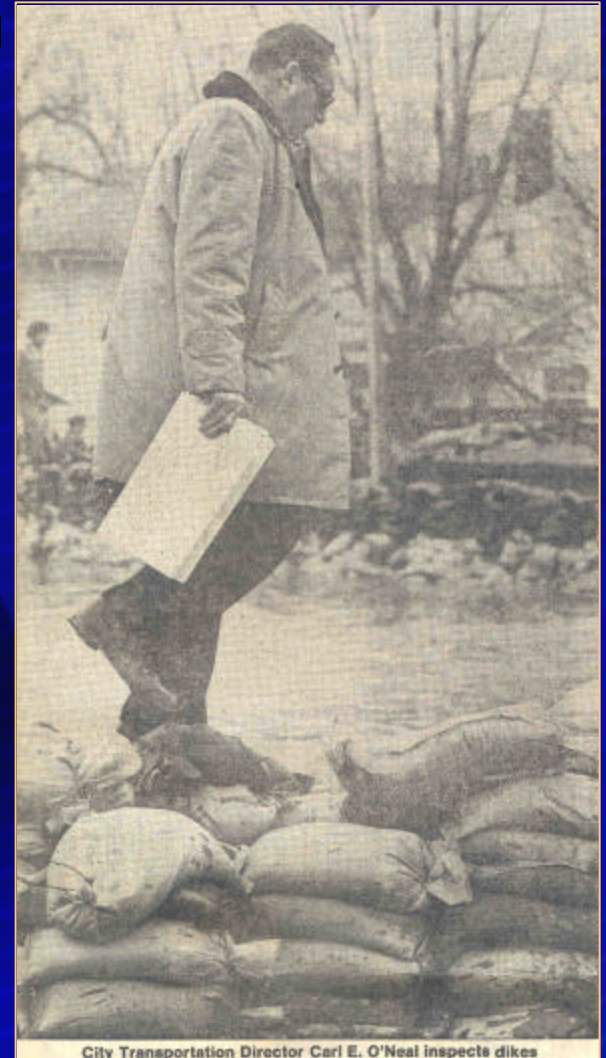
⌚ ***St. Joseph River 11 Feet***

⌚ ***St. Marys River 15 Feet***



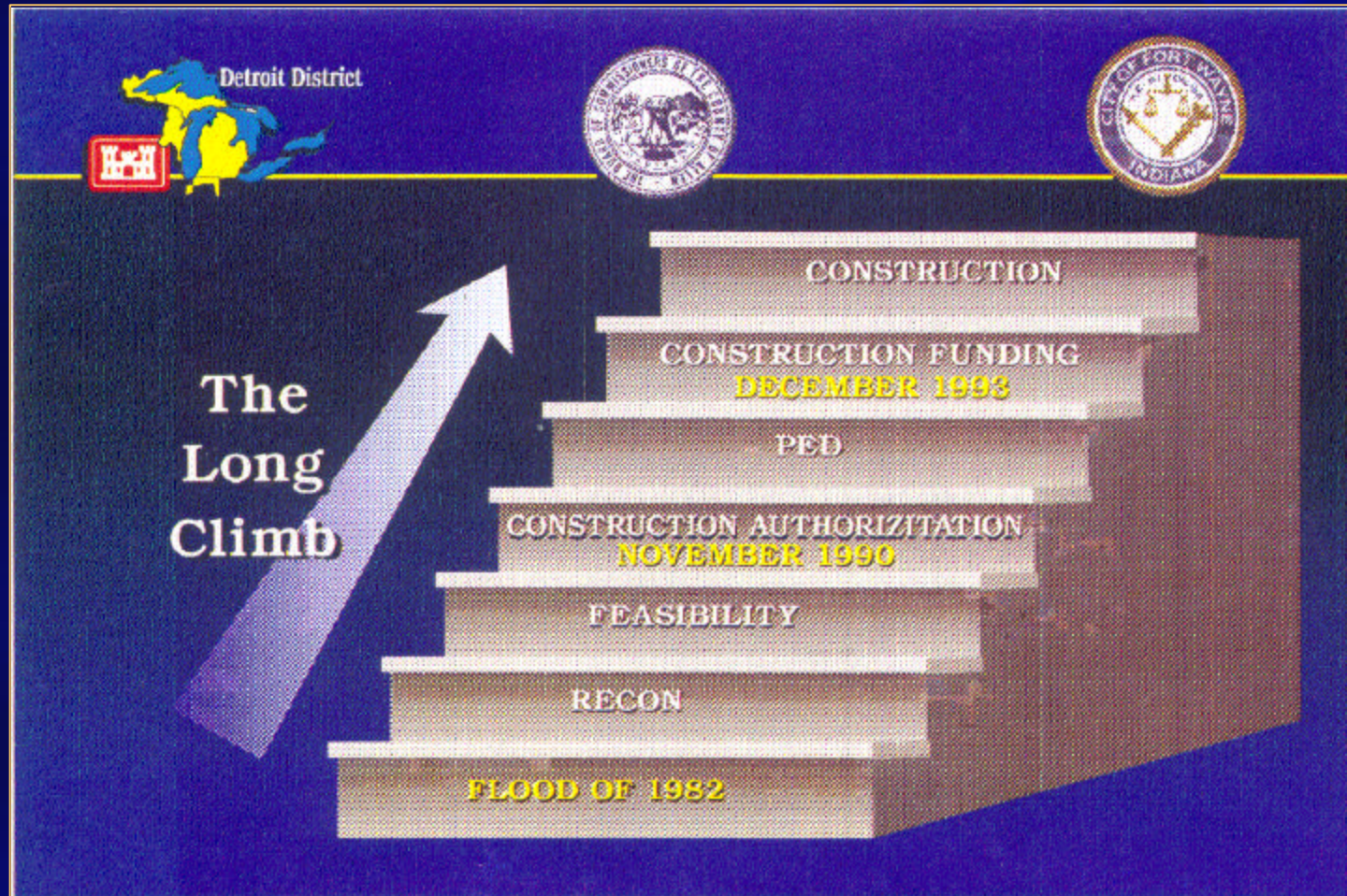
City Transportation Director Carl E. O'Neal inspects dikes

1982



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The Long Climb -- The Flood of 1982 to Construction



Pros of the Project

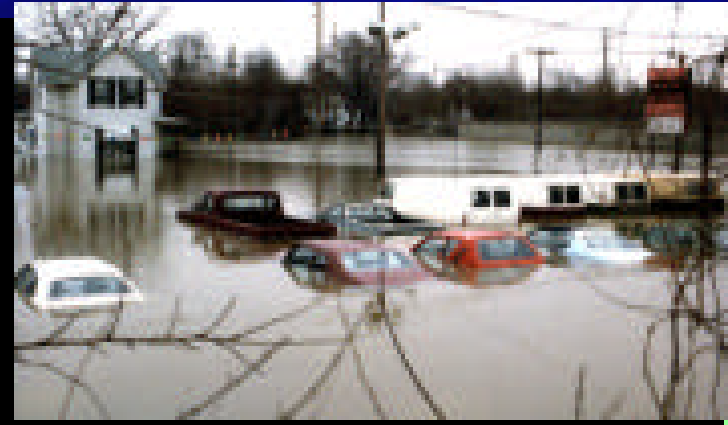
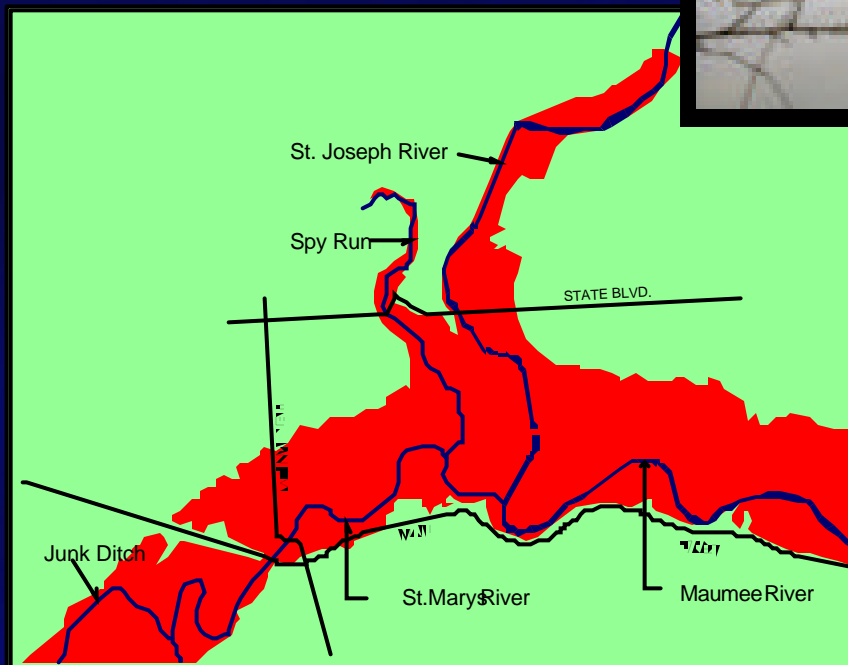
- ***Raised Levees Give Fort Wayne 100-year Flood Protection***
 - ***2 Feet Higher Than River Levels Reached During 1913 Flood***
- ***4000 Homes and Businesses (Removed) Reclassified from Flood Plain***
- ***Flood Insurance Savings to Residents***
- ***Recreational Improvements / Rivergreenway***
- ***Savings of City Resources on Future Floods***



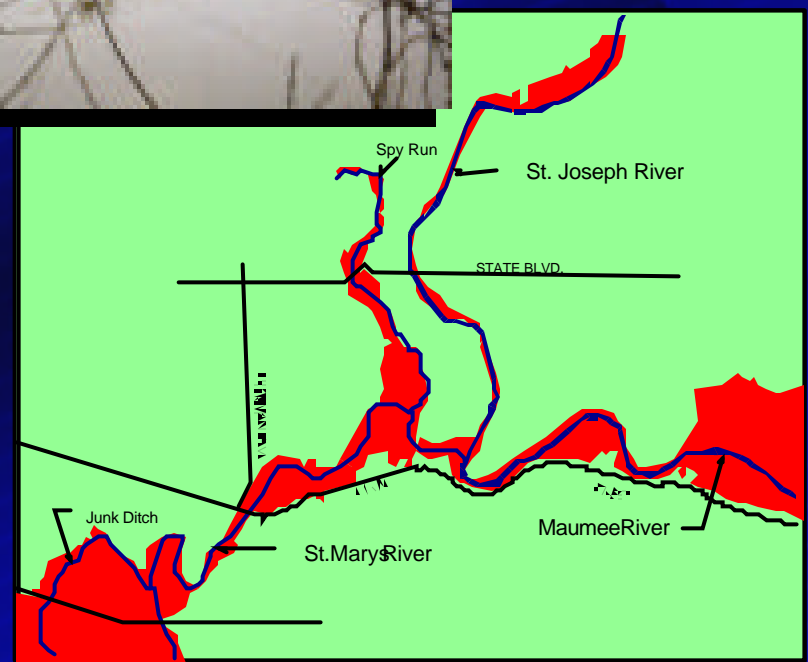
Fort Wayne, IN

100 Year Flood Plain

Without Project



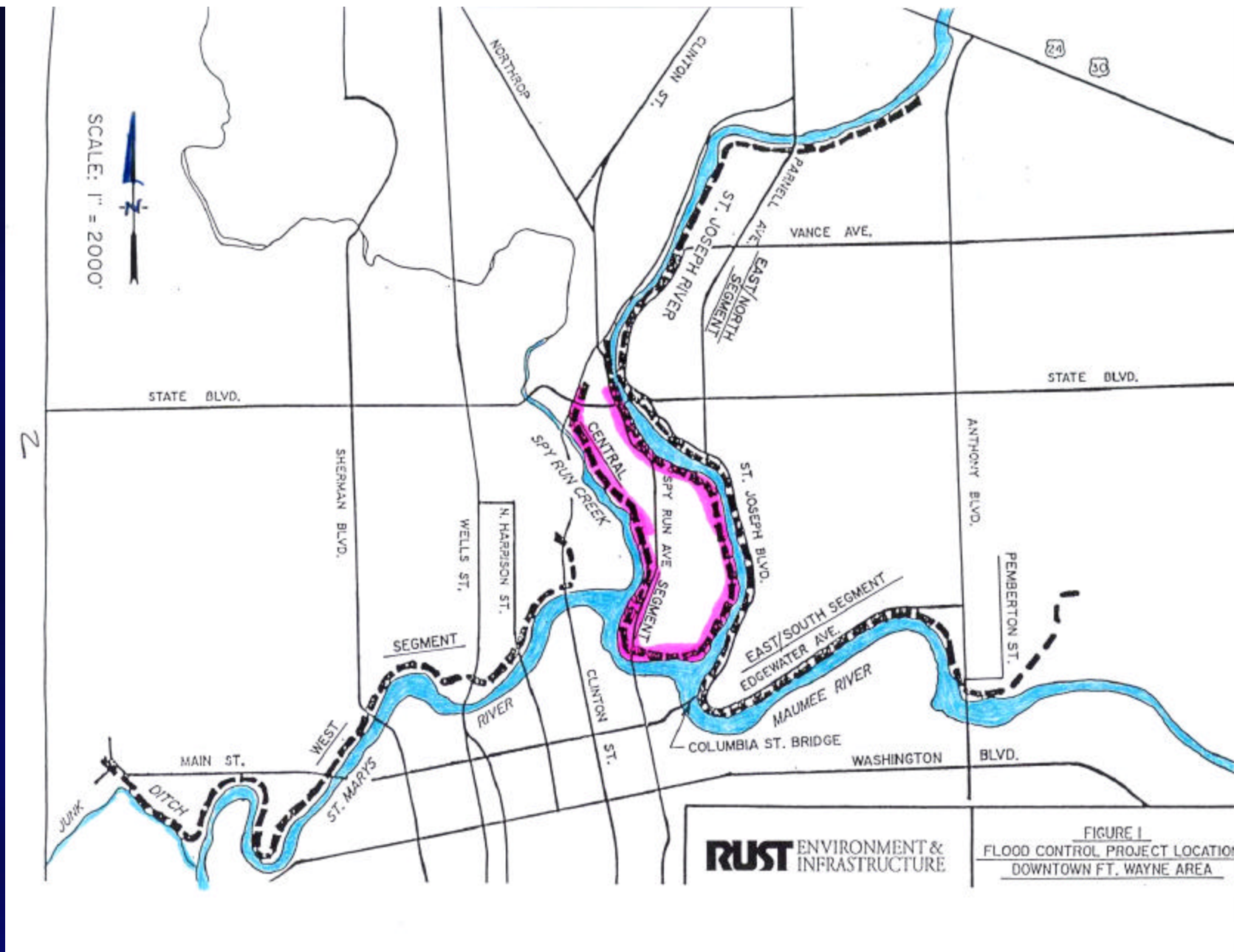
With Project



Scope of Work

- ✧ The project provides 54,000 ft of flood protection along the Maumee, St. Joseph, and St. Mary's Rivers, Spy Run Creek and Junk Ditch.
- ✧ Floodwall
- ✧ Levee
- ✧ 1/2 reduced levee
- ✧ Full reduced levee
- ✧ Utility Relocations/Replacements
- ✧ Toe Drain System
- ✧ Sluice Gates and Flapgates
- ✧ Stoplog Structures and Storage





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Project History

- ✧ Study Authorization - October 12, 1972
- ✧ Major Flood in March 1982
- ✧ Feasibility Study Completed in April 1988
- ✧ Construction Authorization - WRDA 1990
- ✧ Project Cooperation Agreement - August 22, 1994
- ✧ First Construction Contract Awarded - September 1995
- ✧ Construction Completion - June 2001
- ✧ Total Cost: \$49,175,000





Central Segment Contract
Fort Wayne, IN 10/19/99
DACW-35-97-C-0024
E.S.Wagner/Lufkin Photo # 3





Central Segment Contract
Fort Wayne, IN 10/19/99
DACW-35-97-C-0024
E.S.Wagner/Lufkin Photo # /



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Difficulties During Construction

- ✧ Underground Utilities - shutdown, test/disinfect, location, lack of maintenance
- ✧ Trees, trees, trees
- ✧ Street drainage during construction
- ✧ City internal coordination
- ✧ Trail changes requested by City
- ✧ Staffing on-site for USACE



Lessons Learned

- ✧ Tree clearing
- ✧ Coordination with City Departments
- ✧ Constantly adjusting priorities

